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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	CS-8582/LeA 36,354 6478 EXAMINER HAVLIN, ROBERT H ART UNIT PAPER NUMBER 1626 MAIL DATE DELIVERY MODE				
10/544,897	02/02/2006	Ralf Dunkel CS-8582/LeA		6478			
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Patent Department 2 T.W. ALEXANDER DRIVE			HAVLIN, ROBERT H				
	ANDER DRIVE RIANGLE PARK, NC	27709	ART UNIT	PAPER NUMBER			
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			10/15/2007	PAPER			

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/544,897	DUNKEL ET AL.
Office Action Summary		Examiner	Art Unit
	·	Robert Havlin	1626
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address
WHIC - Exter after - If NO - Failu Any (ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE in a sign of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. In period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing and patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be time will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	l. ely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status			
2a)⊠	Responsive to communication(s) filed on <u>22 Au</u> This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Dispositi	on of Claims		
4)⊠ 5)□ 6)⊠ 7)□	Claim(s) 19-22,27-29,32 and 33 is/are pending 4a) Of the above claim(s) 27 and 29 is/are with Claim(s) is/are allowed. Claim(s) 19-22,28 and 33 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	drawn from consideration.	
Applicati	on Papers		
9) 10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the Replacement drawing sheet(s) including the correction to the oath or declaration is objected to by the Examine The oath or declaration is objected to by the Examine The specific and the second	epted or b) objected to by the Education of the definition of the definition of the description of the description is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority u	ınder 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: Certified copies of the priority documents Certified copies of the priority documents Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage
2) Notice 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite

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DETAILED ACTION

Status of the claims: Claims 1-18, 23-26, 30-31, and 34-35 were cancelled; claims 19, 27 were amended; and claims 27 and 29 were withdrawn. Claims 19-22, 27-29, 32, and 33 are currently pending.

Priority: This application is a 371of PCT/EP04/01053, filed on February 5, 2004 and claims benefit under 35 U.S.C. 119(a)-(d) to foreign applications Germany 10306244.0, filed February 14, 2003 and Germany 10321270.1, filed May 13, 2003.

Restriction: As detailed in the prior office action, unity of invention is lacking therefore restriction is proper. Although the applicant partly traverses the restriction requirement, no arguments are presented as to why it was improper; therefore the requirement is hereby made final.

Rejections in Prior Office Action

The 103(a) rejections based on the Japanese patent documents are hereby withdrawn.

The applicant has amended around the cited prior art. However, the prior cited reference of Hahn et al. continues to render the claims unpatentable as detailed below.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 1. Claims 19-22, and 28 are rejected under 35 U.S.C. 102(b) as being aniticipated by Hahn et al. (Han'guk Nonghwa Hakhoechi (2001), 44(3), p. 191-196).

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The instant claims read on a compound of formula (I):

where G1 is trifluoromethyl; G2, G3, and R1-5 are hydrogen; n=0; and Z is 2-CH2CH3. Hahn et al. teaches the identical compound in Table 1, where R=2-CH2CH3; n=0 (compound 52).

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Table 1. The metting points, yields and disease control effects of trifluoromethylated dihydro-1,4-oxathlin carboxandildes prepared

Control value (%) т₽.(°С) yields" (%) RSB COM TLB WLR BPM RCB 20 10 21 109 0 13 Н 187-190 86 96 15 4-CH, 50 82 93 70 70 93 25 24 97 58 11 5 22 21 2-OCH, 117 15 21 100 92 98 100 98 100 100 60 0 3-OCH, 4-OCH, 56 88 75 46 62 85 53 36 63 53 2-CI 3-Cl 4-Cl 2-F 152-153 140-141 122-123 135 144 149-151 162-163

							Control 1	ratue (%))	
entry	α	R	m.p. (°C)	yickis* (%)	RCB	RSB	CGM	TLB	WLR	BPA
17	0	2-CF,	193	78	0	0	0	13	0	14
18	b	2-C,H,	123	36	0	5	35	13	0	35
19	Q	4-C ₁ H ₃	225	23	0	0	0	4	0	Đ
20	0	2-CN	194	45	0	0	22	Q	0	C
21	0	3-OCH(CH,),	142	53	8	93	29	26	100	0
22	0	4-оснсн.),	138-139	37	8	12	3	0	0	0
23	0	3-SCH,	75-76	73	90	94	48	47	100	0
24	0	4-СН,СН,	163	51	8	43	29	0	99	16
25	Ö	3-COC,H,	129-130	80	0	5	3	4	0	0
26	ō	3-CO,CH(CH,), 4-C1	126-127	90	0	0	48	0	0	₹4
27	ō	2.5-di CH.	160-163	29	0	50	48	0	93	0
28	Ö	2,4-di CH,	157-158	25	_ba	•	•	-		•
29	ō	2,5-6i Cl	146-147	54	0	18	35	36	0	41
30	ō	3-CL 6-CH,	178-179	19	0	6	35	0	0	41
31	ŏ	2-Cl, 4-CH,	136	80	0	12	0	15	B6	25
32	ō	2,6-di Et	190	42	0	17	48	0	0	0
33	ŏ	2.4-di F	140-141	59	16	93	29	0	100	25
34	ō	2,4,6-tri CH,	210	32	0	12	9	15	. 0	33
35	ō	2.4.6-tri Cl	215	32	0	43	41	26	0	8
36	ŏ	2,4-di Cl	161-163	50	0	37	35	5	16	50
37	Ü	2,6-di Cl	191	55	_N)		-	-	-	-
38	Ď	2-CH,	117	80	0	93	61	15	100	16
39	Ö	3-CH,	106	80	95	94	70	47	100	47
40	ŏ	3-CH(CH,),	107	90	99	100	52	14	100	20
41	ō	4-CH(CH ₂),	148	51	30	50	12	28	83	10
42	ō	2-OC.H.	126	92	78	55	20	14	88	10
43	ō	3-CN	210	53	30	25	20	14	53	10
44	ŏ	4-0C.H.	153-154	60	30	50	36	14	60	0
45	Ö	4-CL, 5-CF,	140	72	96	50	4	21	0	10
46	ō	3-CF ₃	153-154	88	97	92	28	50	98	10
47	Ö	2-CL 6-OC.H.	169-170	75	30	30	٥	21	0	Н
48	Ö	4-COCH,	187-188	38	55	45	0	14	66	10
49	ŏ	2-CL 6-CH,	184	26	0	65	36	14	73	20
50	ō	3-CL4-CH	138	78	20	40	20	42	D	10
51	ō	2-C1, 5-CP,	113	87	40	92	20	28	0	30
52	ō	2-CH,CH,	176	82	60	92	28	0	96	0
53	ō	2-CH(CH.),	176	87	10					
54	2	2-CI	185	82	70	25	54	78	80	0
55	2	2-NO,	225	71	14					
56	2	2-0CH ₃	178	85	37	0	35	73	0	0
57	2	2.4-di F	196-197	70			54	78	70	0
58	2	3-0	152-153	5l		-	-			

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Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 19-22, 28, and 33 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hahn et al.

The claims are drawn to a compound identified as above with a C2-C5 methoxy group at the 2 position.

Teaching of the prior art:

Hahn teaches 2-OCH3, and related groups such as 2-C6H5 and 3-OCH(CH3)2 as set forth in table 1 above.

Differences between the prior art and the claims:

The claims and the prior art differ by a single methylene group.

Finding of prima facie obviousness:

One of ordinary skill in the art would recognize that similar substitutions on a phenyl ring would yield similarly active compounds just as was taught by Hahn et al. with the variable "R" group of table 1. Since Hahn also teaches groups such as 2-C6H5 and 3-OCH(CH3)2 it would have been obvious to one of skill in the art to make substitutions such as 2-OCH2CH3 given the teachings of related substitutions on the same ring. Therefore, it would have been obvious to one of ordinary skill in the art to make a substitution of 2-ethoxy on the phenyl ring.

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Conclusion

The claims are not in condition for allowance. Any new basis for rejections in this office action were necessitated by the applicant's amendments, therefore **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Robert Havlin whose telephone number is (571) 272-9066. The examiner can normally be reached on Mon. - Fri., 7:30am-5pm EST.

If attempts to reach the examiner by telephone are unsuccessful the examiner's supervisor, Joe McKane can be reached at (571) 272-0699. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Robert Havlin Examiner

RH

KAMAL A. SAEED, PH.D. PRIMARY EXAMINER